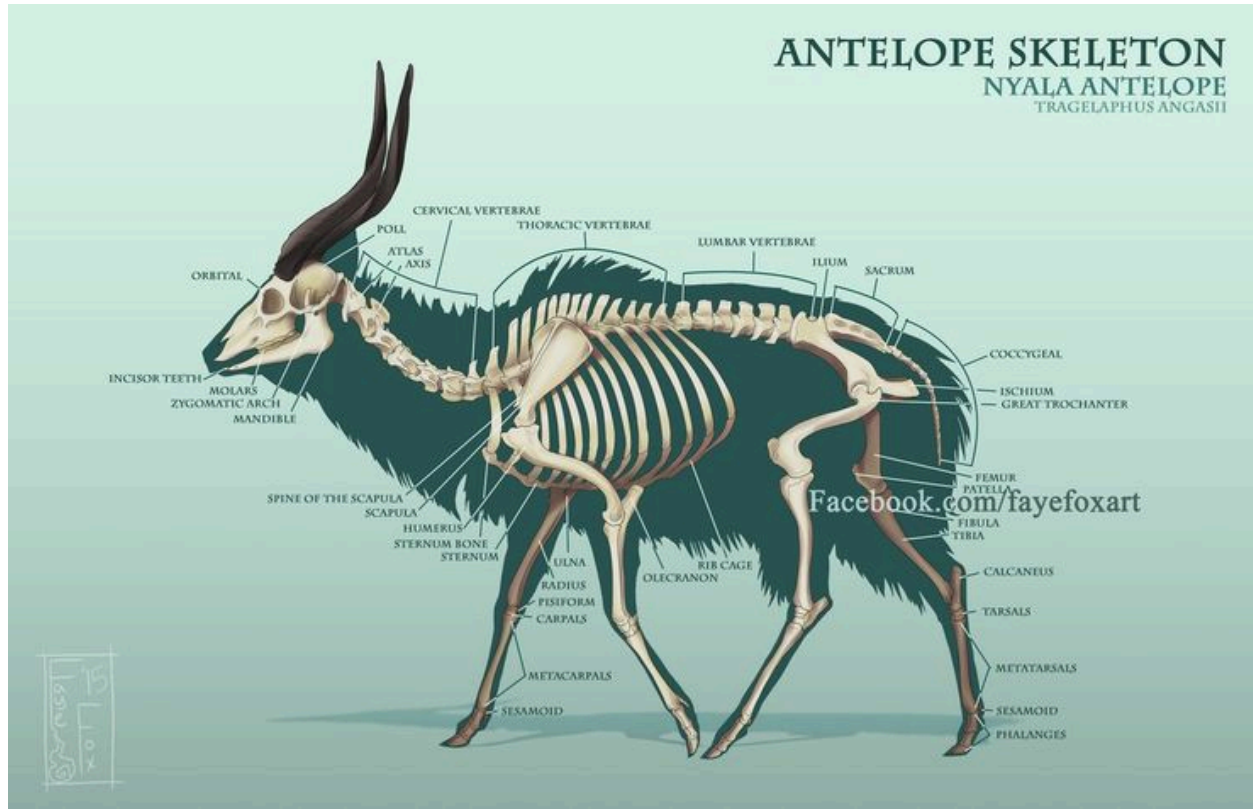


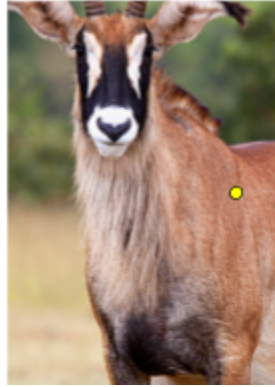
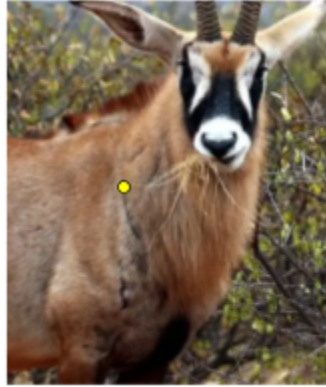
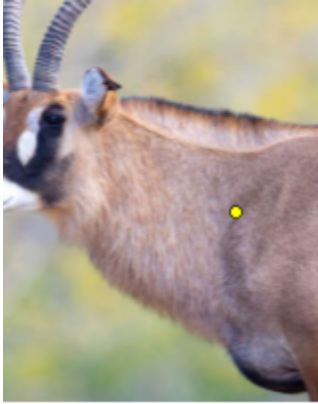
Biological Keypoints



Neck

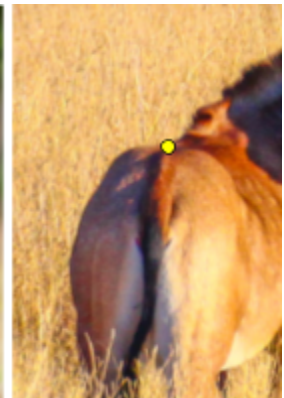
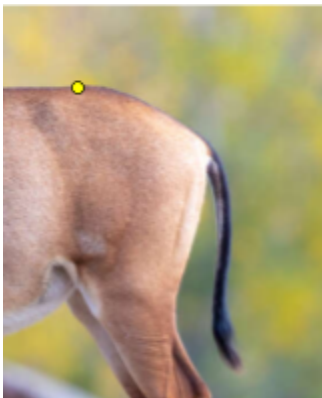
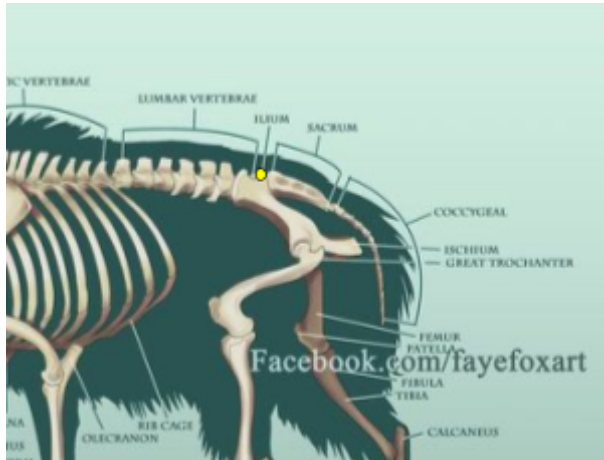
- Place keypoint on the joint at the beginning of the thoracic vertebrae
- This point will likely appear on the upper third of the neck, along the crease at which the neck meets the torso

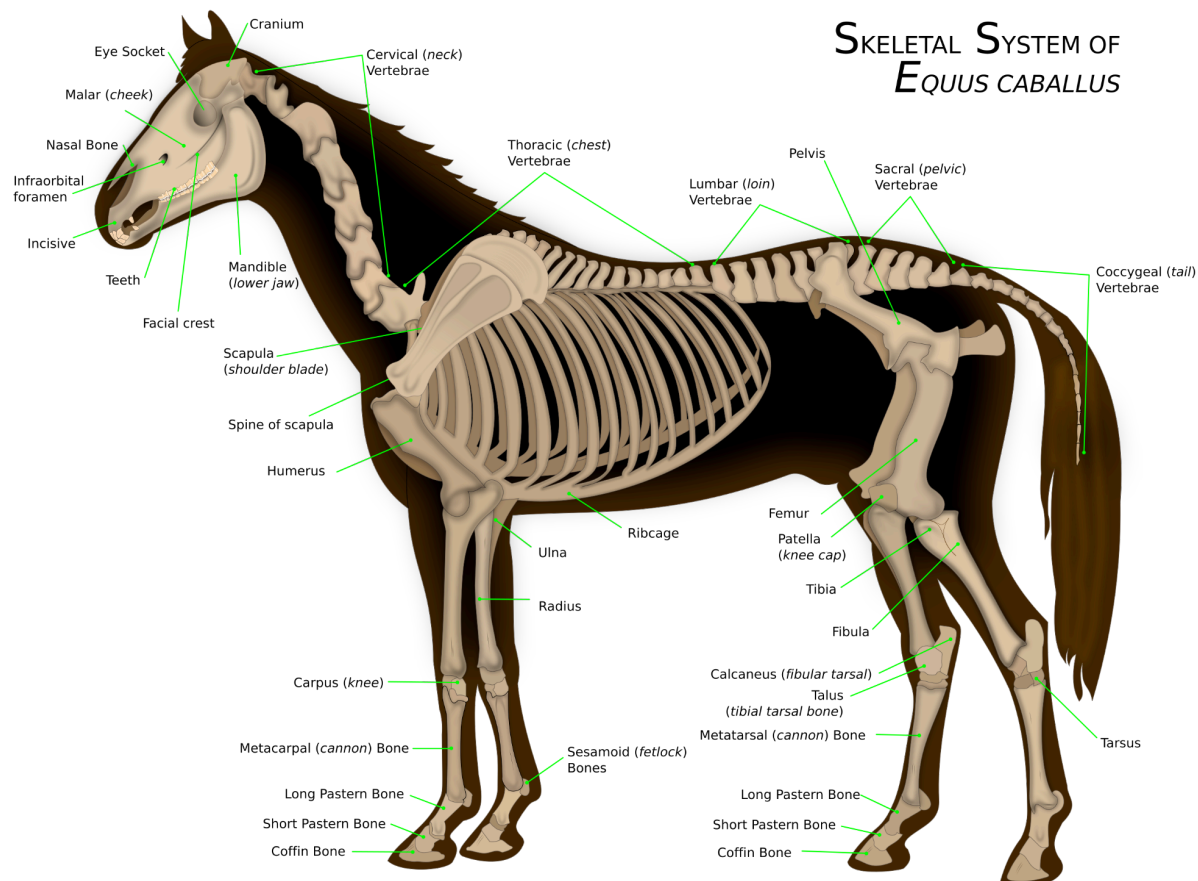




Root of Tail

- Place the keypoint at the Ilium
- This point will likely appear as a point where the tail smoothes into the body; If it is difficult to find, label the general end of the back





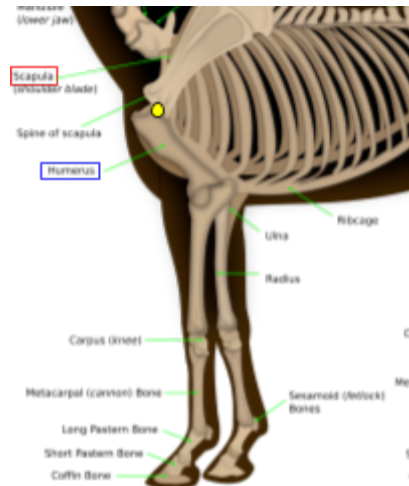
Skeletal System of a Horse, Image courtesy to Wikipedia.

<https://en.wikipedia.org/wiki/Ungulate>

Note: Due to a lack of reliable images visualizing the anatomical structure of specifically antelopes, the bottom two points (i.e., shoulder and hip) will be referring to images of other ungulates's anatomy. In general, there is not much documentation on the anatomy of just antelopes, thus this site (<https://pressbooks.umn.edu/largeanimalanatomy/front-matter/introducti on/>) from the University of Minnesota was used heavily.

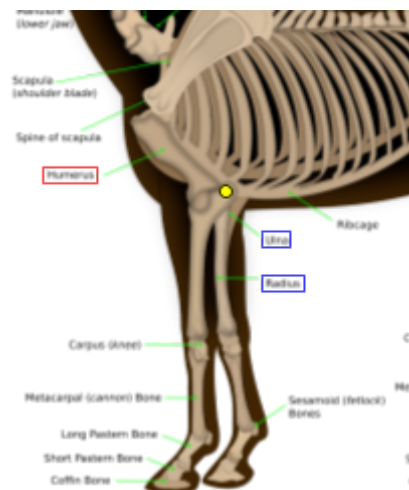
Shoulder

- The shoulder, specifically the shoulder joint, should be the joint between the **scapula** (shoulder blade) and **humerus**.



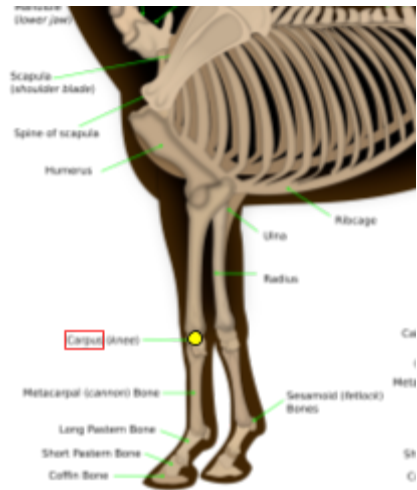
Elbow

- The elbow joint is the joint between the upper arm (humerus) and forearms (ulna and radius).



Wrist

- Although the diagram refers to it as the “knee”, the carpus, or carpal bones, are several bones in the wrist that connect the forearm to the bones in the hand (Tang & Varacallo, 2022).



Hip

Knee

Ankle

References:

Tang A, Varacallo MA. Anatomy, Shoulder and Upper Limb, Hand Carpal Bones. [Updated 2022 Nov 28]. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2025 Jan-. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK535382/>